

Claims

[c1] **WHAT IS CLAIMED IS:**

1.A glove box damper comprising:
a cam assembly comprising a cam lobe attached substantially perpendicular to a pair of mounting spindles and at least two brackets for mounting said cam assembly along the bottom edge of a glove box lid, said glove box lid mounted along its lower edge to a glove box bin allowing said glove box lid to open in a downward direction;
a spring assembly comprising body having an integral spring against which said cam lobe is biased and a pair of spindle mounting slots for positioning said cam assembly, mounted on an IP retainer;
thereby providing a damping of the downward opening movement of said glove box lid.

[c2] 2.A glove box damper as claimed in Claim 1, wherein
said cam assembly is molded of an engineered material selected from the group consisting of ABS, PC/ABS, polypropylene, Norel, and combinations thereof.

[c3] 3.A glove box damper as claimed in Claim 1, wherein
said cam assembly is molded as an integral part of a

glove box lid.

- [c4] 4.A glove box damper as claimed in Claim 1, wherein said cam assembly is molded as a separate unit fixedly attached to a glove box lid.
- [c5] 5.A glove box damper as claimed in Claim 1, wherein said cam assembly cam lobe comprises a material different from the material comprising the rest of said cam assembly.
- [c6] 6.A glove box damper as claimed in Claim 1, wherein said spring assembly is molded of an engineered material selected from the group consisting of ABS, PC/ABS, polypropylene, Norel, and combinations thereof.
- [c7] 7.A glove box damper as claimed in Claim 1, wherein said spring assembly is molded as an integral part of an IP retainer.
- [c8] 8.A glove box damper as claimed in Claim 1, wherein said spring assembly is molded as a separate unit fixedly attached to an IP retainer.
- [c9] 9.A glove box damper as claimed in Claim 1, wherein said spring assembly spring comprises a material different from the material comprising the rest of said spring assembly.

- [c10] 10.A glove box damper as claimed in Claim 1, wherein said spring is compressed about 30% of its free position when said glove box lid is in a closed position and said spring is compressed about 50% of its free position when said glove box lid is in an open position.
- [c11] 11.A glove box damper comprising:
a cam assembly comprising a cam lobe attached substantially perpendicular to a pair of mounting spindles and at least two brackets for mounting said cam assembly along the bottom edge of a glove box lid, said glove box lid mounted along its lower edge to a glove box bin allowing said glove box lid to open in a downward direction;
a spring assembly comprising body having an integral spring against which said cam lobe is biased and having a shape stopping the travel of the cam at a desired point, and a pair of spindle mounting slots for positioning said cam assembly, mounted on an IP retainer;
thereby providing a damping of the downward opening movement of said glove box lid as well as a desired amount of travel of said glove box lid.
- [c12] 12.A glove box damper as claimed in Claim 11, wherein said cam assembly is molded of an engineered material selected from the group consisting of ABS, PC/ABS,

polypropylene, Norel, and combinations thereof.

- [c13] 13.A glove box damper as claimed in Claim 11, wherein said cam assembly is molded as an integral part of a glove box lid.
- [c14] 14.A glove box damper as claimed in Claim 11, wherein said cam assembly is molded as a separate unit fixedly attached to a glove box lid.
- [c15] 15.A glove box damper as claimed in Claim 11, wherein said cam assembly cam lobe comprises a material different from the material comprising the rest of said cam assembly.
- [c16] 16.A glove box damper as claimed in Claim 11, wherein said spring assembly is molded of an engineered material selected from the group consisting of ABS, PC/ABS, polypropylene, Norel, and combinations thereof.
- [c17] 17.A glove box damper as claimed in Claim 11, wherein said spring assembly is molded as an integral part of an IP retainer.
- [c18] 18.A glove box damper as claimed in Claim 11, wherein said spring assembly is molded as a separate unit fixedly attached to an IP retainer.
- [c19] 19.A glove box damper as claimed in Claim 11, wherein

said spring assembly spring comprises a material different from the material comprising the rest of said spring assembly.

- [c20] 20. A glove box damper as claimed in Claim 11, wherein said spring is compressed about 30% of its free position when said glove box lid is in a closed position and said spring is compressed about 50% of its free position when said glove box lid is in an open position.